

DER PROJECT

using
8: ESP

THE LEARNING RESOURCE

Which resource should be developed?
For example learning video, textbook, worksheet, online course

type of resource

Who will learn with this resource?
For example "students 4th grade, Bavaria, Germany"

What prior knowledge is needed?

target group

Circuits
Maths
Arduino coding

What should be known afterwards?

learning goals

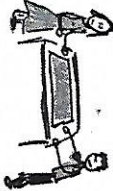
USE OF THE RESOURCE(S)

In which context?
For example: In learning maths

Who will use it?
For example: teachers and parents of fourth grade students

users

Maths, STEAM, STEAM, Robotics



until when?

LICENSE OF THE RESOURCE(S)

How to use the resource?
See: <https://creativecommons.org/choose/>

Who should we acknowledge (attribution of people and organisations)?

license

FORMAT OF THE RESOURCE(S)

Which formats should be supported? For example for a textbook: html, odt or pdf?

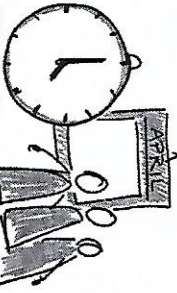
mp4
video format

where will be published?

Git hub
G11 hub

(i) bin
o 31415926535
- ESP use -

PROJECT ORGANISATION



WHEN?	WHAT?	TOOLS?	WHO?
October 2019	project plan	Piece of paper to draw basic design	2 teachers
October 2019	partner search	Organizing 2 working hours	4-12 students
November 2019	organisation	Arduino tutorials youtube tutorials	2 teachers
December 2019	draft/ materials	Arduino kit	6-12 students
January 2020	quality assurance	Putting the circuit together	2 teachers
February 2020	layout/ production	Trying out on our robot	6-12 students
March 2020	publication/PR	licence the video share it	2 teachers

EFFORT (IN HOURS)

2 hours
2 hours
4 hours
4 hours
6 hours
4 hours
2 hours

WHAT ELSE CAN BE DONE WITH THE DER?

Mark using colours

EXISTING MATERIALS

Youtube tutorials
Arduino Forum
Andacith
Open shot
Google classroom

PARTNERS

Who else do we need?

DISTRIBUTING THE DER

Git hub
School site

ARCHIVING THE DER

Git hub
School site

INCENTIVES FOR COLLABORATION

- Give credit in the attribution
- Give credit within project description
- Prepare a printed version for the authors
- Create distributable resource
- Share programming code
- that can be re-used (re-edited)

CC BY
Sandra Schön and
Martin Ehner
2018

Originally developed in German for
DERinfo - Informationsstelle DER
(2017) - <https://open-educational-resources.de/der-our-canvas-tell-1/>

Translated by the
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of Altilia Bankhofer
and Javiera Arenas